

EXHIBIT O

**Excerpts from June 19, 2020 deposition of
Oracle's expert, Barbara Frederiksen-Cross**

PUBLIC REDACTED VERSION

In The Matter Of:

Oracle v.

Rimini Street

Barbara Frederiksen-Cross

June 19, 2020

HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER



Min-U-Script® with Word Index

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<p>1 UNITED STATES DISTRICT COURT 2 DISTRICT OF NEVADA 3 4 ORACLE USA, INC., et al., 5 Plaintiffs, 6 vs. Case No.: 2:10-cv-00106-LRH-VCF 7 RIMINI STREET, INC., et al., 8 Defendants. -----/</p> <p>11 * HIGHLY CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER *</p> <p>12 REMOTELY CONDUCTED VIDEOTAPED 13 EXPERT WITNESS DEPOSITION OF 14 BARBARA FREDERIKSEN-CROSS 15 Wilsonville, Oregon 16 (Witness's location) 17 Friday, June 19, 2020 18 19 20 21 Stenographically reported by: 22 LORRIE L. MARCHANT, RMR, CRR, CCRR, CRC 23 California CSR No. 10523 23 Washington CSR No. 3318 23 Oregon CSR No. 19-0458 23 Texas CSR No. 11318 24 25 Job No.: 2020-86014</p>	<p>1 A P P E A R A N C E S 2 (All appearances remotely via Zoom) 3 4 Appearing as counsel on behalf of Plaintiffs: 5 MORGAN, LEWIS & BOCKIUS, LLP 5 BY: JOHN POLITO, ESQ. 5 LINDSEY SHINN, ESQ. 6 One Market, Spear Street Tower 6 San Francisco, CA 94105 7 (415) 442-1000 7 john.polito@morganlewis.com 7 lindsey.shinn@morganlewis.com 9 9 BY: JACOB J.O. MINNE, ESQ. 10 1400 Page Mill Road 10 Palo Alto, CA 94304 10 (650) 843-7280 11 jacob.minne@morganlewis.com 12 Appearing as counsel on behalf of Defendants: 13 GIBSON, DUNN & CRUTCHER, LLP 13 BY: ERIC D. VANDEVELDE, ESQ. 14 333 South Grand Avenue 14 Los Angeles, CA 90071 15 (213) 229-7000 15 evandevelde@gibsondunn.com 16 BY: CASEY J. MCCRACKEN, ESQ. 17 CHRIS WHITTAKER, ESQ. 18 3161 Michelson Drive 18 Irvine, CA 92612 19 (949) 451-3800 19 cmccracken@gibsondunn.com 19 cwhittaker@gibsondunn.com 20 21 Also present: 21 John P. Reilly, Rimini in-house Counsel 22 Lisa Debrosse Johnson, Rimini in-house 22 Counsel 23 Jim Maroulis, Oracle in-house Counsel 23 Aydaline Garcia, Zoom host 24 Juan Torres, documents technician 25 ---oo---</p>
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<p>1 UNITED STATES DISTRICT COURT 2 DISTRICT OF NEVADA 3 4 ORACLE USA, INC., et al., 5 Plaintiffs, 6 vs. Case No.: 2:10-cv-00106-LRH-VCF 7 RIMINI STREET, INC., et al., 8 Defendants. -----/</p> <p>9 10 11 12 BE IT REMEMBERED that on Friday, June 19, 13 2020, commencing at the hour of 8:58 a.m. PDT, 14 thereof, at the offices of Wilsonville, Oregon 15 (witness's location), before me, LORRIE L. MARCHANT, 16 CSR, RMR, CRR, CCRR, CRC, a Certified Stenographic 17 Shorthand Reporter for the State of California, 18 personally appeared 19 BARBARA FREDERIKSEN-CROSS, 20 called as a witness by the Defendant herein, who, 21 being by me first duly sworn/affirmed, was thereupon 22 examined and testified as hereinafter set forth. 23 ---oo---</p> <p>24 25</p>	<p>1 I N D E X 2 INDEX OF EXAMINATION 3 EXAMINATION BY PAGE 4 MR. VANDEVELDE 5 5 ---oo---</p> <p>6 INDEX OF EXHIBITS MARKED FOR IDENTIFICATION 7 EXHIBIT DESCRIPTION PAGE 8 Exhibit 1854 Corrected Post-Injunction 17 8 Expert Report of Barbara Ann 9 Frederiksen-Cross 10 Exhibit 1855 Corrected Post-Injunction 18 10 Surrebuttal Expert Report of 11 Barbara Ann Frederiksen-Cross 12 Exhibit 1856 Rebuttal Expert Report of 29 12 Professor Owen Astrachan, dated 13 March 13, 2020 14 Exhibit 1857 Document produced in native 71 14 format, RSI006953646 15 Exhibit 1858 Diagram 96 16 Exhibit 1859 Diagram 120 17 Exhibit 1860 Diagram 135 18 Exhibit 1861 Diagram 142 19 Exhibit 1862 Diagram 185 20 Exhibit 1863 PDF version of spreadsheet 189 21 Exhibit 1864 Oracle USA vs. Rimini Street, 247 21 Inc., Opinion 22 23 ---oo---</p> <p>24 25</p>

<p>1 I wanted something printed a different way. So 2 where I felt that I needed to give input, I did. 3 BY MR. VANDEVELDE: 4 Q. Got it. 5 Did you personally review and approve all 6 the exhibits attached to your report? 7 A. I did, yes. 8 Q. Okay. 9 MR. VANDEVELDE: If the document technician 10 could show Exhibit 1854, paragraph 56. 11 MR. POLITICO: And pardon me, Eric, for these 12 documents, we're not going to require that a full 13 copy be sent since we all have a copy. But just to 14 be clear, this is the corrected report. It doesn't 15 include other materials, like the redline version or 16 the errata? I'm just trying to figure out where the 17 document ends since we don't have a physical copy. 18 MR. VANDEVELDE: Oh. Well, the document we 19 marked is just the report itself, John. It is not 20 all the exhibits. 21 MR. POLITICO: Okay. Thank you. 22 MR. VANDEVELDE: So 1854 is just the 23 report. 24 MR. POLITICO: And 1855, the same thing for 25 the surrebuttal.</p>	<p>Page 21</p> <p>1 environment is typically computing machine, real or 2 virtual, in which a specific system is installed and 3 capable of being run. 4 So my question to you is did you find any 5 evidence that Rimini had any PeopleSoft environments 6 on Rimini's systems in the post-injunction time 7 period? 8 MR. POLITICO: Objection. Overbroad. 9 THE WITNESS: Let me just double check my 10 table of contents here. But as I sit here, the only 11 ones that I recall specifically were the ZZ 12 environments, you know, that they had retained for 13 litigation purposes that were produced in the 14 context of the other litigation. 15 BY MR. VANDEVELDE: 16 Q. Got it. 17 So other than those, you found no evidence 18 that Rimini had installed on its own computer 19 systems any PeopleSoft environments? 20 MR. POLITICO: Same objections. 21 THE WITNESS: During the post-injunction 22 time period as bounded by the injunction, that is my 23 recollection, yes. 24 BY MR. VANDEVELDE: 25 Q. Okay. How about for -- same question as to</p>
<p>Page 22</p> <p>1 MR. VANDEVELDE: Is just the surrebuttal. 2 MR. POLITICO: And the last question, I 3 apologize. 4 MR. VANDEVELDE: Sure. No problem. 5 MR. POLITICO: You mentioned Tab 1 and Tab 2. 6 Is there something you're referring to that you 7 intended to send to us that had tabs in it? 8 MR. VANDEVELDE: No, John. That's just our 9 internal reference. If I had a box of documents 10 physically, I would have them -- tab numbers. I'm 11 just letting the document technician know which one 12 I'm referring to before I mark it. 13 MR. POLITICO: Thank you. 14 MR. VANDEVELDE: You'll get the pleasure of 15 doing the same potentially next week, I assume. 16 BY MR. VANDEVELDE: 17 Q. Okay. Ms. Frederiksen-Cross, before you, 18 this is paragraph 56 of your opening report. And as 19 you write: 20 "As explained in my Rimini II 21 reports, a PeopleSoft environment is an 22 installed copy of Oracle's copyrighted 23 PeopleSoft software." 24 I'll also represent that in Exhibit XX of 25 your opening report in Rimini II, you wrote that an</p>	<p>Page 22</p> <p>1 JDE. 2 MR. POLITICO: Objection. Overbroad. Object 3 to the form of the question. 4 THE WITNESS: I'm thinking, Counsel. I do 5 not recall any JDE environments post injunction. 6 Again, I'm trying to recall whether there were any 7 ZZ/JDE, and I don't -- I don't think so, that those 8 were even cc'd. But I don't recall as I sit here 9 any active environments, if I can qualify my 10 question that way -- or my answer that way. 11 BY MR. VANDEVELDE: 12 Q. Okay. And when you say "active," you mean 13 the ones that were preserved, that were ZZ'ed for 14 litigation purposes? 15 A. Well, I would call those archived. 16 Q. Archived. 17 A. And I -- anything that was preserved for 18 litigation purposes from the standpoint of this 19 question is a free pass. 20 But by "active," I mean those that were 21 actively being used for development, testing, or 22 customer use. 23 Q. Okay. And I'm asking not just about being 24 used. I'm asking about presence. So let me ask 25 again.</p>

<p>1 After the injunction, did you find any 2 evidence, putting aside ZZ, the archived 3 environments, any evidence that Rimini stored or 4 possessed on its systems any JDE environment?</p> <p>5 MR. POLITICO: Objection. Overbroad. 6 Compound.</p> <p>7 THE WITNESS: I do not recall any, Counsel. 8 BY MR. VANDEVELDE:</p> <p>9 Q. Okay. Same question as to Oracle database. 10 After the injunction, did you find any 11 evidence, putting aside any ZZ ones, if they did 12 exist, any evidence that Rimini stored or possessed 13 on its systems any Oracle database environments?</p> <p>14 MR. POLITICO: Objection. Overbroad. 15 Compound. Vague.</p> <p>16 THE WITNESS: With respect to the materials 17 that were produced for my inspection, Counsel -- and 18 I should qualify that for all of the answers. 19 With respect to the materials that I was 20 provided production, I did not see any full-blown 21 Oracle database system on Rimini's own production of 22 materials.</p> <p>23 BY MR. VANDEVELDE:</p> <p>24 Q. After the injunction, putting aside any 25 archived-for-litigation-purposes materials, did you</p>	<p>Page 25</p> <p>1 things like updates or portions of updates to 2 software. 3 And we did find some evidence with respect 4 to some of these composite pieces, for instance, on 5 the FTP servers. And so if you can clarify when you 6 ask software, whether you're talking about the 7 running installation or what exactly.</p> <p>8 BY MR. VANDEVELDE:</p> <p>9 Q. Yeah. No, I understand. I'm talking about 10 environments, as you defined them.</p> <p>11 MR. POLITICO: Hold on. The objections are 12 compound. Overbroad.</p> <p>13 THE WITNESS: In the post-injunction 14 period, I did not find running environments for the 15 enjoined products on Rimini's systems.</p> <p>16 BY MR. VANDEVELDE:</p> <p>17 Q. Let's talk about your definition of 18 "derivative works."</p> <p>19 Did you apply the same definition for 20 "derivative works" that you used in your expert 21 reports in Rimini II?</p> <p>22 A. I set forth in my report the expert -- or 23 the interpretation of that term as I applied it 24 here. And I believe it is the same as Rimini II, 25 but I haven't compared them word for word, so ...</p>
<p>1 see any evidence of any Oracle software environments 2 at all, any Oracle software?</p> <p>3 MR. POLITICO: Objection. Overbroad. 4 Compound. Vague.</p> <p>5 THE WITNESS: With respect to, for 6 instance -- and I'm sure we'll go there eventually, 7 but with respect, for instance, to the Windstream 8 environments, there was Oracle environments there 9 and PeopleSoft environments there. So you didn't 10 qualify that question to Rimini's systems.</p> <p>11 BY MR. VANDEVELDE:</p> <p>12 Q. I think I did. But, yeah, I meant Rimini's 13 systems.</p> <p>14 A. On Rimini's internal systems, I do not 15 recall seeing any Oracle database installation.</p> <p>16 Q. I asked about any Oracle software, not 17 limited to JD, Oracle database, or PeopleSoft, just 18 any Oracle software environments at all on Rimini's 19 systems after the injunction.</p> <p>20 MR. POLITICO: So -- sorry. Objection. 21 Vague. Compound. Overbroad.</p> <p>22 THE WITNESS: I'm going to have to ask you 23 to clarify. When we're talking about environments, 24 it's a very easy answer, you know. But when you 25 talk about software generally, I would include</p>	<p>Page 26</p> <p>1 MR. VANDEVELDE: Okay. And, actually, if 2 the document technician could show paragraph 13 of 3 her opening report, which is 1854.</p> <p>4 BY MR. VANDEVELDE:</p> <p>5 Q. So you write: 6 "I understand that Section 101 of the 7 Copyright Act defines 'derivative work' 8 and 'relevant parts' as 'a work based 9 upon one or more preexisting work, such 10 as a translation, or any other form in 11 which a work may be recast, transformed, 12 or adapted.'"</p> <p>13 Were you provided this definition by Oracle 14 counsel?</p> <p>15 A. I was. That was a legal definition that I 16 was provided.</p> <p>17 Q. Did Oracle counsel provide you any further 18 definition or guidance about what a derivative work 19 means?</p> <p>20 MR. POLITICO: Objection. Overbroad. 21 THE WITNESS: Not that I can think of as I 22 sit here, Counsel, beyond what was recorded in my 23 Rimini II report also.</p> <p>24 BY MR. VANDEVELDE:</p> <p>25 Q. And if, for example, that word,</p>

<p style="text-align: right;">Page 145</p> <p>1 but rather just says Rimini shall not use a specific 2 licensee's environment to development or test 3 software updates for modifications for the benefit 4 of any other licensee.</p> <p>5 BY MR. VANDEVELDE:</p> <p>6 Q. Was any Oracle -- strike that.</p> <p>7 Could the engineer -- do you contend it's a 8 violation of the injunction for the engineer to 9 create a dev instruction that says delete line, 10 let's say, 200 from file X?</p> <p>11 MR. POLITICO: Objection. Incomplete 12 hypothetical. Vague.</p> <p>13 THE WITNESS: Assuming that -- again, that 14 the development work to develop the fix was done on 15 Client A's system and tested there, and then the 16 Rimini engineer writes that dev spec, are you saying 17 is the creation of a document that says that a 18 violation, or were you asking is the use of that 19 document a violation?</p> <p>20 BY MR. VANDEVELDE:</p> <p>21 Q. To start with, just the creation of that 22 document.</p> <p>23 MR. POLITICO: Same objections.</p> <p>24 THE WITNESS: Yeah. It would depend in 25 part on what the document contains. But in this</p>	<p style="text-align: right;">Page 147</p> <p>1 and then it's got the name of the function in the 2 dev instruction? Is the creation of that dev 3 instruction, in your view, a violation of the 4 injunction?</p> <p>5 MR. POLITICO: Objection. Incomplete 6 hypothetical. Vague. Object to the extent it calls 7 for a legal conclusion.</p> <p>8 THE WITNESS: And, again, I'm going to read 9 a couple of things in here. Assuming, first of all, 10 that the dev instruction is created on Client A's 11 system and only ever used for Client A's system, and 12 it doesn't contain Oracle code, then the existence 13 of that document at that point does not constitute a 14 violation.</p> <p>15 It's when that document is used to 16 propagate that solution for a benefit of another 17 customer. And so we're not talking a copying issue 18 here. We're really just talking a cross-use issue.</p> <p>19 BY MR. VANDEVELDE:</p> <p>20 Q. How -- stepping aside from the 21 hypothetical -- and maybe just take this down. And 22 this will be the last short line of questioning. 23 Take down the exhibit.</p> <p>24 How can Rimini implement the same update 25 for multiple clients without, in your view,</p>
<p style="text-align: right;">Page 146</p> <p>1 really narrow hypothetical, where it just instructs 2 someone to go to a particular file and delete a 3 particular line, and it hasn't been shared with 4 other customers or used on other customer 5 environments, and it doesn't actually contain the 6 line, it just says "go to this file, delete this 7 line," that is probably is not a violation of 8 anything.</p> <p>9 BY MR. VANDEVELDE:</p> <p>10 Q. But once that instructions is used with 11 Client B, you contend that's a violation of the 12 injunction?</p> <p>13 MR. POLITICO: Objection. Incomplete 14 hypothetical. Vague. Calls for a legal conclusion.</p> <p>15 THE WITNESS: Under my understanding of the 16 injunction, again, that Rimini engineer has now used 17 the Client A's specific environment to develop and 18 test software updates or modifications and is now 19 using that for the benefit of another client.</p> <p>20 So as the injunction is written, that is my 21 understanding, is that it would be a violation.</p> <p>22 BY MR. VANDEVELDE:</p> <p>23 Q. What if instead of saying -- the dev 24 instruction, instead of saying "delete line 200," it 25 said "delete the line where Function F is called,"</p>	<p style="text-align: right;">Page 148</p> <p>1 violating the injunction?</p> <p>2 MR. POLITICO: Objection. Vague. Incomplete 3 hypothetical. Object to the extent it calls for a 4 legal conclusion.</p> <p>5 THE WITNESS: I wasn't asked, Counsel, to 6 specifically identify or address how Rimini could 7 adjust its business practices to ensure that it 8 didn't fall afoul of the injunction. So I haven't 9 thought that hypothetical through with sufficient 10 diligence to be able to offer you any answer of how 11 they could do that.</p> <p>12 As I said in my other deposition, I think, 13 the first point would be perhaps to confer with 14 their counsel to get guidance on what actions are 15 permitted and what actions are not permitted. And 16 then to address their business process accordingly 17 in ways --</p> <p>18 BY MR. VANDEVELDE:</p> <p>19 Q. So Rimini -- if -- if Rimini identified -- 20 if Rimini has a Client A that has a very serious 21 bug, it's very serious, it causes a complete 22 malfunction. The PeopleSoft software is not able to 23 function properly. And it's a very simple fix. It 24 requires the deletion of one line in an Oracle file. 25 And 50 other clients have the same version of</p>

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<p>1 BY MR. VANDEVELDE:</p> <p>2 Q. So in this paragraph, on the fourth line, 3 you said:</p> <p>4 "Instead of developing updates only 5 as needed and only for a particular 6 customer, Rimini groups customers 7 together and provides semi-regular 8 software bundles, such that multiple 9 customers receive the same updates."</p> <p>10 What do you mean by "only as needed"?</p> <p>11 A. Well, as discussed probably in more detail 12 in my Rimini II report, it's clear that Rimini was 13 attempting to consolidate some of the code, for 14 instance, the tax --</p> <p>15 (Stenographer clarification.)</p> <p>16 THE WITNESS: -- the tax960st, I believe, 17 was the one I discussed in my first report, with an 18 eye to moving the customer base towards a more 19 consolidated code base that would be easier for 20 Rimini to maintain with blanket changes that could 21 be issued to all customers.</p> <p>22 And so what I'm talking about there is the 23 fact that obviously for Rimini, if groups of 24 customers have exactly the same software -- and they 25 had developed tools to verify that they used in the</p>	<p>1 standpoint of distributing updates and using updates 2 that were developed on one customer's machine to 3 distribute to multiple customers. That's my 4 understanding.</p> <p>5 BY MR. VANDEVELDE:</p> <p>6 Q. Is the grouping alone sufficient to violate 7 the injunction in your view, or is it only once the 8 updates are delivered or implemented for each of the 9 clients in that grouping?</p> <p>10 MR. POLITO: Objection. Compound.</p> <p>11 THE WITNESS: You lost me a little bit 12 there, Counsel. Can you just ask the question, 13 again or ask it as a two-part question so I can 14 address each part individually?</p> <p>15 BY MR. VANDEVELDE:</p> <p>16 Q. Is the grouping in and of itself, in your 17 view, a violation of the injunction, meaning 18 identifying the group of clients that may need a 19 particular update?</p> <p>20 MR. POLITO: Objection. Asked and 21 answered.</p> <p>22 THE WITNESS: Yeah, I don't think that 23 identifying what software customers are using or 24 what updates they might be is -- or what -- what 25 parts of that software Rimini update is enjoined.</p>	
<p>1 preinjunction period. They are able to determine 2 that the exact same change could be sent to a 3 customer.</p> <p>4 And in many cases, the testing can also be 5 shortcut so that they don't have to do a full test, 6 but rather a partial test, to take advantage of the 7 symmetry in those environments.</p> <p>8 BY MR. VANDEVELDE:</p> <p>9 Q. Did you identify in your analysis in this 10 case any update implemented for a client after the 11 injunction that you contend the client did not need?</p> <p>12 A. I don't recall specifically if I did or 13 didn't, Counsel.</p> <p>14 Q. If you did, would it be in your report?</p> <p>15 A. It would be in my report, yes.</p> <p>16 Q. Do you contend that the injunction 17 prohibits Rimini from identifying and grouping 18 customers together based upon what updates they 19 need?</p> <p>20 MR. POLITO: Objection to the extent it 21 calls for a legal conclusion.</p> <p>22 THE WITNESS: I don't think the injunction 23 addresses Rimini's ability to document the versions 24 of software, for instance, that its customers are 25 using. It's rather grouping them from the</p>	<p>1 preinjunction period. They are able to determine 2 that the exact same change could be sent to a 3 customer.</p> <p>4 And in many cases, the testing can also be 5 shortcut so that they don't have to do a full test, 6 but rather a partial test, to take advantage of the 7 symmetry in those environments.</p> <p>8 BY MR. VANDEVELDE:</p> <p>9 Q. Got it.</p> <p>10 Do you contend that the injunction 11 prohibits updates if they are put out on a 12 semi-regular basis?</p> <p>13 MR. POLITO: Objection. Vague.</p> <p>14 THE WITNESS: To the extent that they're 15 developed on one customer's environment and then 16 distributed to other customers, it's my 17 understanding that that -- whether it's a regular 18 basis or a sporadic basis wouldn't matter. It's the 19 action that they're taking that matters.</p> <p>20 MR. VANDEVELDE: If we could show 21 paragraph 41 of the same document.</p> <p>22 BY MR. VANDEVELDE:</p> <p>23 Q. I won't read the whole paragraph, but this 24 paragraph pertains to Rimini's quality assurance -- 25 QA process; correct?</p> <p>26 A. That's correct, yes.</p> <p>27 Q. And you contend that in certain ways, 28 Rimini's QA process constitutes cross-use, in 29 violation of the injunction?</p> <p>30 A. To the extent that they are creating test 31 plans or test data or test results on one customer's 32 machine and then reusing those for the support of</p>	<p>1 preinjunction period. They are able to determine 2 that the exact same change could be sent to a 3 customer.</p> <p>4 And in many cases, the testing can also be 5 shortcut so that they don't have to do a full test, 6 but rather a partial test, to take advantage of the 7 symmetry in those environments.</p> <p>8 BY MR. VANDEVELDE:</p> <p>9 Q. Got it.</p> <p>10 Do you contend that the injunction 11 prohibits updates if they are put out on a 12 semi-regular basis?</p> <p>13 MR. POLITO: Objection. Vague.</p> <p>14 THE WITNESS: To the extent that they're 15 developed on one customer's environment and then 16 distributed to other customers, it's my 17 understanding that that -- whether it's a regular 18 basis or a sporadic basis wouldn't matter. It's the 19 action that they're taking that matters.</p> <p>20 MR. VANDEVELDE: If we could show 21 paragraph 41 of the same document.</p> <p>22 BY MR. VANDEVELDE:</p> <p>23 Q. I won't read the whole paragraph, but this 24 paragraph pertains to Rimini's quality assurance -- 25 QA process; correct?</p> <p>26 A. That's correct, yes.</p> <p>27 Q. And you contend that in certain ways, 28 Rimini's QA process constitutes cross-use, in 29 violation of the injunction?</p> <p>30 A. To the extent that they are creating test 31 plans or test data or test results on one customer's 32 machine and then reusing those for the support of</p>

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<p>1 Whereas the system is typically the -- as 2 I've defined elsewhere in my report, it's the actual 3 computer and the software that constitutes how it's 4 configured for a particular purpose. So -- 5 BY MR. VANDEVELDE: 6 Q. The -- 7 A. -- the software -- the computer with the 8 software running on it. 9 Q. Can a virtual machine ever be a computer 10 system? 11 MR. POLITICO: Objection. Overbroad. Object 12 to the extent it calls for a legal conclusion. 13 THE WITNESS: A virtual machine is really, 14 from a technical perspective, a very smart piece of 15 software that pretends to be a computer system. But 16 the virtual machine doesn't have an independent 17 existence. It must still run on a physical computer 18 system. 19 So I would draw a distinction between a 20 virtual machine and a computer system for that as 21 well as for other reasons. 22 BY MR. VANDEVELDE: 23 Q. So the answer is, no, you don't think 24 there's any distinction? Sorry. You think that a 25 virtual machine can never be a computer system?</p>	<p>1 PeopleSoft materials? 2 BY MR. VANDEVELDE: 3 Q. Did you determine that any Rimini client 4 stored their PeopleSoft software support materials 5 in any AWS account after the injunction was entered 6 in this case? 7 MR. POLITICO: Objection. Vague. Compound. 8 THE WITNESS: Give me just a moment to 9 reflect, Counsel. I don't recall rendering an 10 opinion on that. 11 Can you ask the question one more time? 12 BY MR. VANDEVELDE: 13 Q. Did you determine that any Rimini client 14 stored their PeopleSoft software and support 15 materials in any AWS account after the injunction 16 was entered in this case? 17 MR. POLITICO: Same objections. 18 THE WITNESS: As I sit here, I do not 19 recall offering any opinion on customer's behavior 20 with respect to where they were storing materials in 21 an AWS account. 22 BY MR. VANDEVELDE: 23 Q. In this paragraph 14, you say: 24 "The plain meaning of 'facilities' is 25 limited to locations or premises owned or</p>

<p>1 would at least shut off access to the machines if a 2 customer wasn't paying for them. So the control 3 seems to be with Windstream and Rimini. 4 BY MR. VANDEVELDE: 5 Q. So you are offering an opinion as to who 6 controls a cloud account holder's virtual machine as 7 between a cloud provider and a cloud account holder? 8 MR. POLITICO: Objection. Sorry. Objection. 9 Vague. Compound. Objection to the extent it calls 10 for a legal conclusion. 11 THE WITNESS: I think you're giving me an A 12 or a B choice, Counsel. And what I'm saying here is 13 that in the case of the dev and test environments 14 used for PeopleSoft, there actually -- actually, 15 there's a third party in the picture, Rimini. 16 So you have the customer, who may be the 17 account holder of record with Windstream in terms of 18 payment. You have Windstream, who ultimately 19 controls whether that environment continues to spin 20 up if somebody doesn't pay. And then you have 21 Rimini, who dictates the control and access to 22 the -- to the specific computer. 23 BY MR. VANDEVELDE: 24 Q. Did you consider whether control can be 25 delegated in that situation?</p>	<p>9 Q. Did you analyze any, for example, access 10 control lists for those virtual machines? 11 A. In the context of this case, I don't 12 believe that I was given ACL lists. I did look at 13 some ACL lists in the context of the Rimini II 14 matter, where, in most cases, it appeared that the 15 users that had been defined to the machine were 16 primarily or exclusively Rimini users. 17 Q. That's not evidence that after the entry of 18 the injunction, is it? 19 (Stenographer clarification.) 20 MR. VANDEVELDE: After entry of the 21 injunction, is it? 22 MR. POLITICO: Objection. To the extent it 23 calls for a legal conclusion. Objection. Vague. 24 THE WITNESS: I would have to look back to 25 the specific dates that that material was produced.</p>
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1 A. Beyond identifying some of the

5 Q. Did you analyze whether a -- folder
6 permissions on client systems after entry of the
7 injunction?8 MR. POLITICO: Objection. Vague. Overbroad.
9 Incomplete hypothetical.10 THE WITNESS: Again, Counsel, I'm not sure
11 that I received any evidence for folder permissions
12 that I know as I sit here to be after the time
13 period of the injunction. So I'm not able to answer
14 that question without looking back to the underlying
15 evidence and identifying the dates that I have. I
16 would present that analysis in my report.

17 BY MR. VANDEVELDE:

18 Q. Your report doesn't analyze any folder
19 permissions after entry of the injunction; correct?20 A. There may be a quotation in there from -- I
21 believe it was COE, about what the customer was
22 representing with respect to its access, but I did
23 not verify individual folder permission accesses or
24 comment on any in this report.

25 Q. Your report doesn't analyze the

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1 for in this matter.

2 Q. In preparing your report, did you speak to
3 anyone who worked at PeopleSoft?4 A. By "PeopleSoft," I assume you're including
5 the parent company, Oracle.

6 Q. Let's break it down.

7 Before the acquisition, did you speak to
8 anyone who worked at PeopleSoft before Oracle
9 acquired it?10 A. I don't know whether any of the Oracle
11 individuals with whom I spoke in the preparation of
12 the Rimini report may have worked for Oracle
13 before -- or may have worked for PeopleSoft before
14 the acquisition because I know some employees
15 transferred over. So I don't know the answer to
16 that as I sat here.17 Q. I believe at the outset of this deposition,
18 you said you had not spoken to any Oracle employees
19 in connection with the preparation of your report in
20 this matter.

21 Is that still the case?

22 A. In preparation with -- with respect to the
23 reports in the post-injunction matter. The only
24 Oracle individual I can recall speaking with at all
25 was counsel for Oracle, not any of their technical

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1 installation of any software -- or uninstallation of
2 any software, does it?3 MR. POLITICO: Objection. Compound. Vague.
4 THE WITNESS: I would have to refresh my
5 recollection with respect to whether any of the dev
6 instructions specifically uninstalled programs or
7 replaced them in the provision of the update. But
8 beyond something like that, I don't recall anything
9 that would have been in this report.

10 BY MR. VANDEVELDE:

11 Q. Your report doesn't analyze the
12 configurations of client machines, does it?13 A. I provide some analysis with respect to the
14 AFW configurations in the way that those client
15 machines -- based on the somewhat limited evidence I
16 have, interact with AFW on Rimini's servers. So I
17 do provide some analysis specifically directed to
18 the AFW and FTP servers.

19 Q. Do you provide any --

20 A. I don't talk about their configuration in
21 any more broader sense. It's very specific to the
22 facts of this case.23 Q. Are you holding yourself out as an expert
24 in ERP software licensing?

25 A. No. That is not expertise that I was hired

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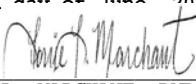
1 people. And I think he was on a couple of calls I
2 was on. I don't recall any specific in-depth
3 conversations with him at all, but I am aware that
4 he was present on a couple of calls.5 Q. Do you know -- do you know whether he
6 worked at PeopleSoft?7 A. I don't know that. I don't know that at
8 all. And so that's what I'm saying is I really
9 don't know. But he's the only Oracle individual
10 that I can recall having even said hello to since
11 the beginning of this report -- or these reports,
12 actually. My opening report and the rebuttal
13 report.14 Q. Are you offering any facts about what may
15 or may not have motivated PeopleSoft to include
16 facilities restriction in some of their licensing
17 agreements?18 MR. POLITICO: Objection. Calls for a legal
19 conclusion.20 THE WITNESS: I provide, I believe, my
21 understanding of why such a -- why such a
22 restriction might exist from a technical basis, but
23 I do not opine specifically on Oracle or
24 PeopleSoft's motives in implying that.

25 I just give some technical background about

<p style="text-align: right;">Page 261</p> <p>1 why virtualized machines are different than physical 2 machines, and why some of those considerations might 3 be something that a licensor of software might want 4 to consider.</p> <p>5 BY MR. VANDEVELDE:</p> <p>6 Q. Who would you think has superior knowledge 7 of the intent behind the provisions in Oracle's 8 PeopleSoft licenses, yourself or Richard Allison, 9 who is Oracle's executive vice president and head of 10 licensing?</p> <p>11 MR. POLITICO: Objection. Vague. Outside 12 the scope. To the extent it calls for a legal 13 conclusion.</p> <p>14 THE WITNESS: You're saying who -- who have 15 more understanding of Oracle's motivations?</p> <p>16 BY MR. VANDEVELDE:</p> <p>17 Q. Or the PeopleSoft software licenses, you or 18 Richard Allison, who's head of licensing at Oracle?</p> <p>19 MR. POLITICO: Same objections.</p> <p>20 THE WITNESS: I don't know the answer to 21 that because I don't know if Mr. Allison was there 22 when those licenses were written. But if he was, 23 then he would be in a much better position than I to 24 speak to Oracle or PeopleSoft's motivation. And if 25 he wasn't, then it's probably somebody else that you</p>	<p style="text-align: right;">Page 263</p> <p>1 THE WITNESS: If a JDE client using that 2 software was unable to update it to accommodate some 3 change in law, I think that would be problematical 4 for them if they were using that part of the 5 software.</p> <p>6 BY MR. VANDEVELDE:</p> <p>7 Q. Let's look at your opening report, which is 8 1854. Paragraph 313, if that could be put up. It's 9 towards the end. Around page 115, although mine 10 might be paged slightly differently.</p> <p>11 A. That's the paragraph that says "based on my 12 experience in the industry"?</p> <p>13 Q. Yeah. It says "Based" --</p> <p>14 A. At PDF -- or at page 116 of the printed 15 copy, and it's probably off by a few in the PDF.</p> <p>16 Q. Okay. Great. Yeah, there it is. 17 It says: 18 "Based on my experience in the 19 industry and my review of JD Edwards 20 support materials, 'open code' and 21 'closed code' are both 'source code.' 22 'Source code' means source code: Code in 23 human-readable format." 24 Does opening a code file, regardless of 25 whether it's open code or closed code, cause the</p>
<p style="text-align: right;">Page 262</p> <p>1 haven't named yet.</p> <p>2 MR. VANDEVELDE: Why don't we take a 3 10-minute break that if works for you.</p> <p>4 MR. POLITICO: That's okay with me. 5 Barb?</p> <p>6 THE WITNESS: Works fine for me.</p> <p>7 MR. VANDEVELDE: Great. Let's do that. 8 Thank you.</p> <p>9 THE VIDEOGRAPHER: The time is 4:33. We 10 are going off the record. (Recess taken, from 4:33 to 4:46)</p> <p>12 THE VIDEOGRAPHER: The time is 4:46. We 13 are back on the record.</p> <p>14 BY MR. VANDEVELDE:</p> <p>15 Q. Ms. Frederiksen-Cross, you understand 16 you're still under oath?</p> <p>17 A. I do.</p> <p>18 Q. Would you agree that JDE support customers 19 may need tax updates, tax, legal, and regulatory 20 updates?</p> <p>21 A. I would expect that they might, yes.</p> <p>22 Q. Okay. So if the law changes, if a JDE 23 client licensee can't update their software, then 24 that would pose a problem for them?</p> <p>25 MR. POLITICO: Objection. Overbroad.</p>	<p style="text-align: right;">Page 264</p> <p>1 file to be temporarily copied into RAM?</p> <p>2 MR. POLITICO: Objection. Assumes facts. 3 Vague.</p> <p>4 THE WITNESS: At least a part of the file 5 would be typically -- or will be copied into RAM. 6 And, you know, in modern systems, it's normally the 7 whole file.</p> <p>8 BY MR. VANDEVELDE:</p> <p>9 Q. And so viewing the file would also cause a 10 copy of at least a portion of the file to be loaded 11 into RAM?</p> <p>12 MR. POLITICO: Same objections.</p> <p>13 THE WITNESS: That is correct, yes.</p> <p>14 BY MR. VANDEVELDE:</p> <p>15 Q. And necessarily modifying a code file, 16 regardless of whether it's open or closed, would 17 necessitate a portion or all of that file being 18 copied into RAM?</p> <p>19 MR. POLITICO: Objection. Assumes facts. 20 Vague.</p> <p>21 THE WITNESS: Short of using a -- a desk 22 editor against the raw bytes of the disk, to edit a 23 file it would necessitate copying it into RAM.</p> <p>24 BY MR. VANDEVELDE:</p> <p>25 Q. Same with compiling the file?</p>

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<p>1 A. That is correct.</p> <p>2 Q. So by logic, you're testifying that Rimini</p> <p>3 is prohibited under the injunction from opening a</p> <p>4 JDE code file regardless of whether it's open or</p> <p>5 closed code?</p> <p>6 A. That appears to be consistent with the</p> <p>7 language of the -- I mean, that is my understanding</p> <p>8 as a technical person of this language.</p> <p>9 If I was told I could not copy a file, I</p> <p>10 would read from that, as a software engineer, that I</p> <p>11 could not modify that file.</p> <p>12 Q. And you couldn't even view that file;</p> <p>13 correct?</p> <p>14 A. That's correct as well.</p> <p>15 Q. And you couldn't compile that file?</p> <p>16 A. That is also correct.</p> <p>17 Q. How could Rimini direct, even assuming it's</p> <p>18 allowed, the licensee to take certain actions,</p> <p>19 without being able to look at any of the code?</p> <p>20 MR. POLITICO: Objection. Incomplete</p> <p>21 hypothetical.</p> <p>22 THE WITNESS: That's an interesting</p> <p>23 question, Counsel. And, again, another thing that I</p> <p>24 was not asked to analyze or tried to discover in the</p> <p>25 course of my work. So I don't have an answer for</p>	<p>1 But if your point is that the database --</p> <p>2 the software that controls the database and that</p> <p>3 performs the search has to be in RAM, I would agree</p> <p>4 with you.</p> <p>5 Q. Does configuring Oracle database and then</p> <p>6 testing those configurations require running the</p> <p>7 database software?</p> <p>8 MR. VANDEVELDE: Objection. Overbroad.</p> <p>9 Exceeds the scope.</p> <p>10 THE WITNESS: Some configuration options,</p> <p>11 those that are done through central configuration</p> <p>12 files, can be done without running the database.</p> <p>13 But significant changes that would affect the</p> <p>14 database operation, you know, the allocation of</p> <p>15 storage, the allocation of buffers, any kind of</p> <p>16 structuring change, those would require the DBMS</p> <p>17 software to be brought into memory --</p> <p>18 (Stenographer clarification.)</p> <p>19 THE WITNESS: -- the database management</p> <p>20 software to be brought into memory and run in order</p> <p>21 for you to make that change.</p> <p>22 BY MR. VANDEVELDE:</p> <p>23 Q. Even for simple -- what you call simple</p> <p>24 configurations, if you wanted to test those simple</p> <p>25 configurations, you would have to run the database</p>

<p>1 A. Sure.</p> <p>2 Q. JDE is another one?</p> <p>3 A. M-hm. That's correct. Yes.</p> <p>4 Q. Also non-Oracle ERP applications, like SAP</p> <p>5 ERP applications; correct?</p> <p>6 A. I am aware that there are other vendors who</p> <p>7 provide ERP applications that run on Oracle. I just</p> <p>8 can't answer in the absolute that every ERP</p> <p>9 application out there can run on Oracle. I</p> <p>10 suspect --</p> <p>11 Q. I'm not asking you that. I'm asking</p> <p>12 whether SAP is one of them that can run an Oracle</p> <p>13 database.</p> <p>14 A. My recollection is that it is, yes.</p> <p>15 Q. Assume there's a PeopleSoft environment,</p> <p>16 and its underlying database is Oracle database.</p> <p>17 If you develop and test updates for that</p> <p>18 PeopleSoft environment that interact with the</p> <p>19 underlying Oracle database, that would require that</p> <p>20 Oracle database or a portion of it be run and loaded</p> <p>21 into memory; correct?</p> <p>22 MR. POLITICO: Objection. Incomplete</p> <p>23 hypothetical.</p> <p>24 BY MR. VANDEVELDE:</p> <p>25 Q. Did you say "correct"?</p>	<p>Page 273</p> <p>1 be concerned that the prohibition against</p> <p>2 reproducing the software could extend to not even</p> <p>3 making a copy in memory because that is reproducing</p> <p>4 at least a part of the software, the part that</p> <p>5 you're interacting with.</p> <p>6 BY MR. VANDEVELDE:</p> <p>7 Q. Are you offering that opinion?</p> <p>8 A. Well, it --</p> <p>9 MR. POLITICO: Same objection.</p> <p>10 THE WITNESS: You're asking me to make a</p> <p>11 legal interpretation of the court's ruling. I'm</p> <p>12 telling you how I would understand it as a technical</p> <p>13 person, that if Rimini is reproducing the Oracle</p> <p>14 software -- that is to say, creating a copy of it --</p> <p>15 that that would be a prohibited act. That's my</p> <p>16 understanding as a technical person reading the</p> <p>17 words the court wrote.</p> <p>18 BY MR. VANDEVELDE:</p> <p>19 Q. Even if that copy is only in RAM?</p> <p>20 MR. POLITICO: Same objections.</p> <p>21 THE WITNESS: I don't see any carve-out for</p> <p>22 RAM copies in the injunction, Counsel, so I would</p> <p>23 have to assume, absent other clarification, that</p> <p>24 that would mean even copies in RAM.</p> <p>25 ///</p>
<p>Page 274</p> <p>1 A. Yeah, if you were -- if you were actually</p> <p>2 testing the application and the part of it that used</p> <p>3 the database, that would be true for certain, yes.</p> <p>4 Q. And that's true if SAP or the Application</p> <p>5 Layer 2; correct?</p> <p>6 MR. POLITICO: Same objection.</p> <p>7 THE WITNESS: I haven't analyzed the SAP</p> <p>8 code, so I can't address whether there are corner</p> <p>9 cases where that might not be true.</p> <p>10 But as a general principle, if SAP is</p> <p>11 running on top of Oracle and you are testing any</p> <p>12 change to SAP that affects its interaction with the</p> <p>13 Oracle database, that would be true.</p> <p>14 BY MR. VANDEVELDE:</p> <p>15 Q. Do you contend that the injunction</p> <p>16 prohibits Rimini from running Oracle database?</p> <p>17 MR. POLITICO: Object to the extent it calls</p> <p>18 for a legal conclusion.</p> <p>19 THE WITNESS: My understanding of the</p> <p>20 injunction is that the court has said specifically</p> <p>21 that Rimini Street shall not reproduce, prepare</p> <p>22 derivative works from, or distribute Oracle database</p> <p>23 software.</p> <p>24 And so based on just the plain meaning of</p> <p>25 those words, again, as a technical person, I would</p>	<p>Page 276</p> <p>1 BY MR. VANDEVELDE:</p> <p>2 Q. Even a portion of it?</p> <p>3 MR. POLITICO: Same objection.</p> <p>4 THE WITNESS: Even a portion would be</p> <p>5 Oracle database software. So to the extent that</p> <p>6 that portion was a portion of the Oracle database</p> <p>7 software, it appears to me to be prohibited here</p> <p>8 based on the clear wording of the injunction.</p> <p>9 BY MR. VANDEVELDE:</p> <p>10 Q. Do you recall whether the Ninth Circuit</p> <p>11 ever analyzed the issue of RAM copies in this case?</p> <p>12 MR. POLITICO: Object to the extent it calls</p> <p>13 for a legal conclusion. Overbroad. Outside the</p> <p>14 scope.</p> <p>15 THE WITNESS: I don't recall specifically.</p> <p>16 I was thinking of that as I gave you my answer,</p> <p>17 Counsel, because I don't recall specifically that</p> <p>18 they were ruling on that. But if you want to direct</p> <p>19 me to any part of their ruling, I'm happy to review</p> <p>20 it with you.</p> <p>21 BY MR. VANDEVELDE:</p> <p>22 Q. No. I'm asking you whether you recall the</p> <p>23 Ninth Circuit discussing RAM copies. It sounds like</p> <p>24 no, but if you recall something, let me know.</p> <p>25 MR. POLITICO: Same objection. Asked and</p>

<p>1 on that kind of system, it might be in the same 2 physical block of memory, but it is a different 3 chunk of memory that's allocated to the video 4 processor. And where a separate processing units is 5 completely separate.</p> <p>6 BY MR. VANDEVELDE:</p> <p>7 Q. Is that -- okay. And I'm going to use the 8 word "video buffer" -- 9 (Stenographer clarification.)</p> <p>10 BY MR. VANDEVELDE:</p> <p>11 Q. I'm going to use the phrase "video buffer." Is that display adapter memory continually 12 painting the pixels on the screen to display an 13 image?</p> <p>14 A. Typically it is, yes.</p> <p>15 Q. Many times a second?</p> <p>16 A. Again, typically it is 60 cycles or better 17 normally for ...</p> <p>18 MR. VANDEVELDE: Okay. Why don't we take a 19 quick break. I think we're getting close.</p> <p>20 Does that work with you, Barbara and John?</p> <p>21 MR. POLITICO: Fine with me.</p> <p>22 MR. VANDEVELDE: Okay. Let's do ten more 23 minutes. I think we're close. All right. Thank 24 you.</p>	<p>1 agreed by the parties.</p> <p>2 THE VIDEOGRAPHER: Shall we go off the 3 record now?</p> <p>4 MR. POLITICO: Yes, please.</p> <p>5 MR. VANDEVELDE: Thanks, everyone, for your 6 help. Have a good evening.</p> <p>7 (Stenographer clarification.)</p> <p>8 THE VIDEOGRAPHER: The time is 5:54. This 9 concludes the deposition. Thank you.</p> <p>10 THE STENOGRAPHER: Okay. I just need to 11 check.</p> <p>12 Eric, you have a standing order.</p> <p>13 And, John, do you also need the e-mailed 14 rough and a 2-day expedite also?</p> <p>15 MR. POLITICO: I'm sure we have a standing 16 order. I probably don't have the authority to 17 change it, so ...</p> <p>18 THE STENOGRAPHER: Okay. I don't see the 19 standing order on here. I can double-check, but if 20 it sounds right to you --</p> <p>21 MR. POLITICO: It sounds right to me. I can 22 have our paralegal reach out to you with 23 confirmation because she is the person in charge.</p> <p>24 THE STENOGRAPHER: Sounds good. All right. 25 (Deposition concluded at 5:54 p.m.)</p>
<p>1 THE VIDEOGRAPHER: The time is 5:27. We 2 are going off the record. 3 (Recess taken, from 5:27 to 5:45.)</p> <p>4 THE VIDEOGRAPHER: The time is 5:45. We 5 are back on the record.</p> <p>6 MR. VANDEVELDE: We have no further 7 questions at this time.</p> <p>8 MR. POLITICO: All right. Give us five 9 minutes.</p> <p>10 MR. VANDEVELDE: Okay.</p> <p>11 THE VIDEOGRAPHER: The time is 5:45, and we 12 are going off the record. 13 (Recess taken, from 5:45 to 5:53.)</p> <p>14 THE VIDEOGRAPHER: The time is 5:53. We 15 are back on the record.</p> <p>16 MR. POLITICO: Great.</p> <p>17 So Oracle has no questions. Thanks very 18 much.</p> <p>19 MR. VANDEVELDE: Great. Thanks all. Have 20 a good evening and --</p> <p>21 THE VIDEOGRAPHER: The time is -- 22 (Simultaneous speakers - unclear.)</p> <p>23 MR. POLITICO: We have a protective order 24 agreement in this case, so just -- this is highly 25 confidential until it's redesignated/dedesigned as</p>	<p>1 Page 294</p> <p>1 REPORTER'S CERTIFICATE 2 I, LORRIE L. MARCHANT, Certified Shorthand 3 Reporter, Certificate No. 10523, for the State of 4 California, hereby certify that BARBARA 5 FREDERIKSEN-CROSS was by me duly sworn/affirmed to 6 testify to the truth, the whole truth and nothing 7 but the truth in the within-entitled cause; that 8 said deposition was taken at the time and place 9 herein named; that the deposition is a true record 10 of the witness's testimony as reported to the best 11 of my ability by me, a duly certified shorthand 12 reporter and a disinterested person, and was 13 thereafter transcribed under my direction into 14 typewriting by computer; that request [] was [x] 15 was not made to read and correct said deposition. 16 I further certify that I am not interested 17 in the outcome of said action, nor connected with, 18 nor related to any of the parties in said action, 19 nor to their respective counsel. 20 IN WITNESS WHEREOF, I have hereunto set my 21 hand this 22nd day of June 2020. 22 23  24 LORRIE L. MARCHANT, RMR, CRR, CCRR, CRC 25 Stenographic Certified Shorthand Reporter #10523</p> <p>1 Page 295</p>